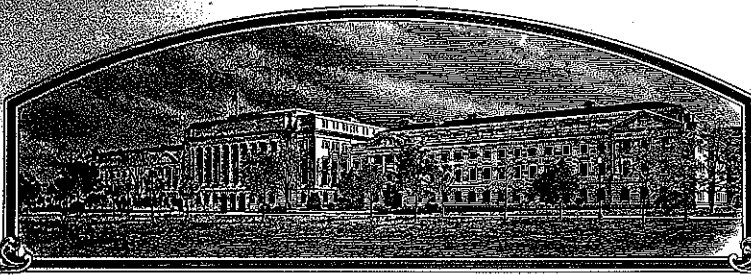


No.

200700169



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pure-Seed Testing, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REMISEMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

FESCUE, TALL

'Coronado TDH'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this second day of October, in the year two thousand and eight.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and The Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

1. NAME OF OWNER Pure-Seed Testing, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME PST-5TDH		3. VARIETY NAME Coronado TDH	
4. ADDRESS (Street and No., or RFD No., City, State, and ZIP Code, and Country) PO Box 449 Hubbard, OR 97032		5. TELEPHONE (include area code) 503-263-0719		FOR OFFICIAL USE ONLY PVPO NUMBER # 200700169	
		6. FAX (include area code) 503-263-0703		FILING DATE 3/5/2007	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Oregon		9. DATE OF INCORPORATION 3 June 1974	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)				F E E S R E C E I V E D	
Melodee Fraser, Ph.D. PO Box 176 Rolesville, NC 27571		Crystal Rose-Fricker PO Box 449 Hubbard, OR 97032		FILING AND EXAMINATION FEES: \$ 4,382.00 DATE 3/5/2007 CERTIFICATION FEE: \$ 768.00 DATE 9/9/2008	
11. TELEPHONE (Include area code) 919-556-0146		12. FAX (Include area code) 919-556-0174		13. E-MAIL psteast@earthlink.net	
14. CROP KIND (Common Name) tall fescue		16. FAMILY NAME (Botanical) Gramineae		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
15. GENUS & SPECIES NAME OF CROP Festuca arundinacea		17. IS THE VARIETY A FIRST GENERATION HYBRID? No		IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)				20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes," answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no," go to item 23)	
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety				21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO	
b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness				IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety				22. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO	
d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional)				IF YES, SPECIFY THE NUMBER 1, 2, 3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership					
f. <input checked="" type="checkbox"/> Exhibit F. Declaration Regarding Deposit					
g. <input checked="" type="checkbox"/> Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)					
h. <input checked="" type="checkbox"/> Filing and Examination fee (\$4,382), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)					
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)				24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue will be deposited in a public repository and maintained for the duration of the certificate.					
The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.					
Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER <i>Melodee L. Fraser</i>			SIGNATURE OF OWNER <i>Crystal A. Rose-Fricker</i>		
NAME (Please print or type) Melodee L. Fraser			NAME (Please print or type) Crystal A. Rose-Fricker		
CAPACITY OR TITLE Director of Research - East		DATE 1/11/07		CAPACITY OR TITLE President	
				DATE 1/11/07	

Exhibit A - Revised

Origin and Breeding History of 'Coronado TDH' Tall Fescue

Pure-Seed Testing, Inc., Hubbard, OR, developed and released 'Coronado TDH' tall fescue. The breeding project was begun during the late spring of 2001, when 74 plants with similar phenotypes were selected from various tall fescue spaced-plant nurseries near Hubbard. These plants had tall, upright growth habits; dark green color; a high number of reproductive tillers and no visible crown or stem rust symptoms. The plants were transplanted prior to anthesis into an isolated polycross, designated 5TDH, and allowed to interpollinate. Seed was subsequently harvested from each plant during the summer of 2001. This seed was used to establish single-plant progeny turf evaluation plots near Hubbard and Rolesville, NC during the fall of 2001.

During the summers of 2002 and 2003, the progeny turf evaluation trial near Rolesville was heavily damaged by brown patch disease. Seven of the 5TDH progeny turf plots were identified as having better brown patch resistance and summer turf performance than the other plots. Plants were dug from these seven plots and used to establish an isolated 650-plant nursery near Hubbard during the fall of 2003. During the spring of 2004, plants were removed from this nursery to increase uniformity of plant type and maturity. Remaining plants had tall, upright growth habits; dark green color; a high number of reproductive tillers and no visible crown rust or stem rust symptoms. These plants interpollinated and Breeder seed was subsequently harvested from 255 plants with high floret fertility during the summer of 2004.

The plants that produced the Breeder seed of Coronado TDH tall fescue traced their maternal origins to the following sources: 39% to 'Coronado'; 34% to 'Endure'; 14% to a plant collected at Georgia State Hospital, Milledgeville, GA; 9% to 'Gazelle'; and 4% to 'Tomahawk GT'. Seed production of Coronado TDH is limited to three generations of increase from Breeder seed: one each of Foundation, Registered, and Certified. Pure-Seed Testing, Inc. maintains Breeder seed in Oregon and will regenerate Breeder seed as needed. Coronado TDH has shown stability and uniformity for three years multiplied from Breeder seed through the Certified seed generation. No off-types or variants have been observed in the production or multiplication of Coronado TDH tall fescue.

Exhibit B - Revised

Statement of Distinctness for 'Coronado TDH' Tall Fescue

'Coronado TDH' is most similar to 'Coronado' tall fescue. They differ in the following characteristics:

1. Coronado TDH has a mean initial heading date at least six days earlier than Coronado (Table 1).
2. Coronado TDH has a nodding panicle orientation, while Coronado has an erect panicle (Certificate No. 9500078).
3. Coronado TDH has an open panicle type, while Coronado has an intermediate panicle type (Certificate No. 9500078).
4. Coronado TDH has no lemma hairs, while Coronado has several lemma hairs (Certificate No. 9500078).

Coronado can also be distinguished from 'Endure' tall fescue by the following characteristics:

5. Coronado TDH does not have auricle hairs, while auricle hairs are present in Endure (Certificate No. 200100288).
6. Coronado TDH has semi-rough leaf margins, while Endure leaf margins are rough (Certificate No. 200100288).

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY PROGRAM
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT C
(TALL & MEADOW FESCUES)**

**OBJECTIVE DESCRIPTION OF VARIETY
TALL & MEADOW FESCUES
(*Festuca* spp.)**

NAME OF APPLICANT(S) Pure-Seed Testing, Inc.	TEMPORARY DESIGNATION PST-5TDH	VARIETY NAME Coronado TDH
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) PO Box 449 Hubbard, OR 97032		FOR OFFICIAL USE ONLY PVPO NUMBER #200700169

Place the appropriate number that describes the varietal characteristics of this variety in the boxes below. Use leading zeroes when necessary (e.g. 089). Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors. Characteristics marked with an asterisk * are characteristics which should be recorded.

* 1. SPECIES: (With comparison varieties, use varieties within the species of the application variety)

<u>1</u>	1 = <i>F. arundinacea</i> (Tall)	<u>Turf Types</u>			
	1 = Kentucky 31 2 = Rebel	3 = Olympic	4 = Bonanza	5 = Arid	6 = Rebel II
	7 = Shortstop 8 = Silverado	9 = Rebel Jr.	10 = Mini Mustang	11 = Crewcut	12 = Bonsai
		<u>Forage Types</u>			
	20 = Kentucky 31	21 = Martin	22 = Forager	23 = Mozark	
	24 = Kenhy	25 = AU Triumph	26 = Fawn	27 = Cajun	
<u> </u>	2 = <i>F. pratensis</i> (Meadow)				
	30 = Admira	31 = Beaumont	32 = Comtessa	33 = Ensign	34 = Trader

* 2. CYTOLOGY:

42 Chromosome Number

3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)

2 Transition Zone 2 West 2 Northeast Other (Specify): _____

* 4. MATURITY: (Date First Headed, 10% of Panicle Emergence)

5 Maturity Class 1 = Very early () 2 = AU Triumph 3 = Early (Fawn) 4 = K31, Kenhy 5 = Medium (Rebel)

4. MATURITY: (continued)

#200700169

6 = Bonanza

7 = Late (Silverado)

8 = ()

9 = Very late

Date Headed **26 April 05**Location **Hubbard, OR**

_____ Days earlier than _____
 Maturity same as _____
6 _____ Days later than **1**

} Comparison Variety

* 5. MATURE PLANT HEIGHT CM: (Average of 100 culms * INTERNODE LENGTH CM: (Table 1)
 from crown to top of panicle, if panicle is nodding, straighten) (First internode subtending the flag leaf)

121.3 cm Height
22.2 cm Shorter than **1**
 Height same as _____
 _____ cm Taller than _____

} Comparison Variety

27.5 cm Internode Length
1.9 cm Shorter than **1**
 Length same as _____
 _____ cm Longer than _____

} Comparison Variety

* HEIGHT AT EAR EMERGENCE CM: (Flag leaf height from crown to flag leaf collar)

71.7 cm Height
23 cm Shorter than **1**
 Height same as _____
 _____ cm Taller than _____

} Comparison Variety

* 6. GROWTH HABIT: (Mature Plants)

9 1 = Prostrate () 3 = Semiprostrate () 5 = Horizontal ()
 7 = Semierect (Rebel) 9 = Erect (Mini Mustang)

* 7. RHIZOMES (Psuedo):

0.0 mm Length **1** 1 = Absent () 2 = Rare (Rebel) 3 = Common ()

* 8. LEAF BLADE: (Tiller leaves/ turf color)

* **7** Color: 1 = Light green () 3 = Medium light green () 5 = Green ()
 7 = Medium dark green () 9 = Very dark green ()

5 Specify rating of comparison variety **9**

* **1** Anthocyanin: 1 = Absent () 9 = Present ()
 * **1** Basal Hairs: 1 = Absent () 9 = Present ()
 * **5** Margins: 1 = Smooth () 5 = Semi-rough () 9 = Rough ()

8. LEAF BLADE: (continued)

#200700169

* 5 Width Class: 1 = Very coarse () 3 = Coarse () 5 = Medium ()
7 = Fine () 9 = Very Fine ()

* TILLER LEAF LENGTH CM: (First leaf subtending the flag leaf) * TILLER LEAF WIDTH MM:

<u>23.8</u> cm Tiller Leaf Length	<u>3.1</u> mm Tiller Leaf Width
<u>6.6</u> cm Shorter than <u>1</u>	mm Narrower than <u>1</u>
Length same as _____	Width same as _____
_____ cm Taller than _____	mm wider than _____
} Comparison Variety	} Comparison Variety

FLAG LEAF LENGTH CM:

FLAG LEAF WIDTH MM:

<u>16.8</u> cm Flag Leaf Length	<u>2.6</u> mm Flag Leaf Width
<u>4.4</u> cm Shorter than <u>1</u>	<u>1.1</u> mm Narrower than <u>1</u>
Length same as _____	Width same as _____
_____ cm Longer than _____	mm Wider than _____
} Comparison Variety	} Comparison Variety

* 9. LEAF SHEATH: (Basal Portion)

* _____ Anthocyanin (seedling): 1 = Absent (K31) 9 = Present () **Will send addendum**
* 1 Auricle Hairiness: 1 = Absent () 9 = Present ()

* 10. PANICLE: (At seed maturity except where noted.)

* 1 Shape: 1 = Narrow-tapering () 5 = Ovate () 7 = Oblong () 9 = Other (specify)
* 7 Type: 1 = Compact (appressed) 5 = Intermediate () 7 = Open () 9 = Other (specify)
* 1 Orientation: 1 = Nodding () 9 = Erect ()
* 9 Branch Pubescence: 1 = Glabrous () 9 = Pubescent ()
* 1 Anther Color (At anthesis): 1 = Yellowish Green 2 = Green 3 = Bluish Green
4 = Purplish 5 = Reddish 6 = Other (Specify)
* 2 Glume Color (At anthesis): 1 = Yellowish Green 2 = Green 3 = Bluish Green
4 = Purplish 5 = Reddish 6 = Other (Specify)

* 21.7 cm Panicle Length (from base to tip, if nodding, straighten; after anthesis)

7.3 cm Shorter than 1
Length same as _____ } Comparison Variety
_____ cm Longer than _____

* 11. SEED: (With Lemma & Pelea)

* 2233 mg per 1000 seeds

#200700169

____ mg Less than ____
Weight same as ____
192 mg More than 8 } Comparison Variety

PALEA: (Keels or Margins)

1 Hairs: 1 = Absent () 5 = Short (Missouri 96) 9 = Long ()

LEMMA:

1 Hairs: 1 = Absent (Kenhy) 5 = Several () 9 = Many (Missouri 96)

5.6 mm Lemma Length (Mature)

1.5 mm Lemma Width

0.1 mm Shorter than 8
Length same as ____
____ mm Longer than ____ } Comparison Variety

____ mm Narrower than ____
Width same as ____
0.4 mm Wider than 8 } Comparison Variety

*AWNS: 9 AWNS: 1 = Absent () 9 = Present (Falcon) ____ % Plants with awns **Will send addendum**

1.2 mm Awn length (Of those present.)

____ mm Shorter than ____
Length same as ____
0.4 mm Longer than 8 } Comparison Variety

12. DISEASE, INSECT, AND NEMATODE REACTION: (0= Not Tested 1= Least Resistant 9= Most Resistant)

0 Melting-out *Drechslera poae*

0 Blind Seed *Gloeotinia temulenta*

0 Leaf Spot *D. siccans*

0 Dollar Spot *Lanzia, Mollerdiscus* spp.

7 Net Blotch *D. dictyoides*

5 Stem Rust *Puccinia graminis*

6 Brown Patch *Rhizoctonia solani*

0 T. Blight *Typhula incarnata*

0 C. Leaf Spot *Cercospora fectuae*

6 Pythium Blight *Pythium* spp.

0 Pink Snow Mold *Gerlachia nivalis*

0 Powdery Mildew *Erysiphe graminis*

0 Silver Top *F. tricinctum, F. roseum*

6 Crown Rust *Puccinia coronata*

____ Other Disease _____

____ Other Insect _____

____ Other Nematode _____

13. ENVIRONMENTAL STRESS

5 Drought Stress 1 = Susceptible () 5 = Tolerant () 9 = Resistant ()

5 Shade Stress 1 = Susceptible () 5 = Tolerant () 9 = Resistant ()

5 Winter Stress

1 = Susceptible () 5 = Tolerant () 9 = Resistant ()

14. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics, indicate the degree of resemblance with the following scale:

1 = Application variety is less than comparison variety 2 = Same as 3 = More than, better, greater, darker, etc.

Character	Varieties	Rating	Character	Varieties	Rating
Leaf Width	Coronado	1	Leaf Color	Coronado	2
Panicle Color			Panicle Shape		
Seed Size	Coronado	2	Cold Injury	Coronado	3
Winter Color	Coronado	2	Heat	Coronado	3
Disease	Coronado	3			

* 15. EXPERIMENTAL: Give a brief summary of the experimental design utilized to collect the data used on this form. Cultural conditions, number of plants measured and plant spacing must be specified.

Seed yield trials were seeded near Hubbard, OR at 3.6 kg/ha. Twenty-five tillers from each of three replications were measured at maturity for a total of 75 tillers/cultivar.

Exhibit D - Revised**Additional Description of 'Coronado TDH' Tall Fescue**

1. 'Coronado TDH' has shown good turf quality in North Carolina (Tables 5 and 8), Oregon (Table 7), Illinois (Table 9), Tennessee (Table 10) and California (Table 11) turf trials.
2. 'Coronado TDH' has exhibited good brown patch resistance in North Carolina (Tables 6 and 8) and Tennessee (Table 9).
3. 'Coronado TDH' has shown good density in turf (Tables 9 and 10).
4. 'Coronado TDH' has shown good salt tolerance, compared to other tall fescues (Table 12).

Table 1. Mean initial heading dates for entries in a tall fescue seed yield trial seeded fall of 2005 near Hubbard, OR.

Entry	2006	2007
Fury	07 May	05 May
Coronado	07 May	02 May
Endure	29 April	26 April
Coronado TDH	01 May	23 April
Kentucky 31	26 April	13 April
LSD (0.05)	2 days	4 days

Table 2. 2005 mean initial heading dates for entries in a tall fescue seed yield trial seeded fall of 2004 near Hubbard, OR.

Entry	2005	2006
Pure Gold	03 May	09 May
Coronado TDH	26 April	02 May
Endure	24 April	01 May
Kentucky 31	20 April	25 April
LSD (0.05)	2 days	3 days

Table 3. 2005 mean morphological measurements for entries in a tall fescue seed yield trial seeded fall of 2004 near Hubbard, OR.

Entry	Plant Height (cm)	Flag Leaf Height (cm)	Internode Length (cm)	Tiller Leaf Length (cm)	Tiller Leaf Width (mm)	Flag Leaf Length (cm)	Flag Leaf Width (mm)	Panicle Length (cm)	Tiller Count (#/100 cm ²)
Kentucky 31	143.5	94.7	29.4	30.4	4.4	21.2	3.7	29.0	12.4
Virtue	131.5	79.7	30.3	30.5	5.1	21.4	4.3	28.0	20.8
Coronado TDH	121.3	71.7	27.5	23.8	3.1	16.8	2.6	21.7	35.0
LSD (0.05)	4.4	3.7	3.2	1.6	0.4	1.8	0.4	1.4	6.6

Table 4. 2006 mean morphological measurements for entries in a tall fescue seed yield trial seeded fall of 2005 near Hubbard, OR.

Entry	Plant Height (cm)	Flag Leaf Height (cm)	Internode Length (cm)	Tiller Leaf Length (cm)	Tiller Leaf Width (mm)	Flag Leaf Length (cm)	Flag Leaf Width (mm)	Panicle Length (cm)	Tiller Count (#/100 cm ²)
Kentucky 31	137.0	83.5	23.9	28.5	6.3	20.4	4.4	28.0	14.9
Coronado	132.8	71.5	23.0	23.8	4.6	16.7	3.8	21.0	56.2
Coronado Gold	132.4	76.9	23.2	25.4	4.1	17.5	3.8	23.0	50.1
Coronado TDH	130.3	74.8	23.9	23.5	3.7	17.6	4.0	22.0	47.7
LSD (0.05)	4.3	3.2	1.4	1.9	0.5	1.5	0.5	1.3	8.9

Table 5. 2005 mean turf quality ratings for entries in a tall fescue turf trial seeded fall of 2004 near Rolesville, NC.

Entry	Apr-Jun	Jul-Sep	Oct-Dec	Mean
Tar Heel II	6.4 ¹	6.5	5.7	6.2
Coronado TDH	6.3	5.3	6.7	6.1
Silverado II	6.3	5.3	3.7	5.1
Endure	5.3	5.0	4.0	4.8
Coronado Gold	5.7	3.5	3.0	4.1
Coronado	5.4	4.0	2.3	3.9
Kentucky 31	2.6	2.0	2.0	2.2
Southeast	2.0	1.2	1.0	1.4
LSD (0.05)	1.2	1.2	1.7	0.9

¹9 = ideal

Table 6. 2006 Mean brown patch ratings for entries in a tall fescue turf trial seeded fall of 2005 near Rolesville, NC.

Entry	Mean
Coronado TDH	8.0¹
Virtue II	7.3
Endeavor	7.3
Wolfpack	7.0
Matador GT	6.3
Olympic Gold	5.7
Tombstone	5.3
Coronado	3.7
Southeast	1.0
LSD (0.05)	2.3

¹9 = no disease

Table 7. Mean turf quality ratings for entries in a tall fescue turf trial seeded fall of 2004 near Hubbard, OR.

Entry	2005	2006	Mean
Dynamic	6.9 ¹	7.0	6.9
Silverado II	5.9	6.3	6.1
Endure	5.8	6.6	6.2
Coronado TDH	5.7	6.0	5.8
Coronado Gold	5.6	5.3	5.5
DaVinci	4.6	5.8	5.2
LSD (0.05)	0.7	0.8	0.6

¹9 = ideal

Table 8.

CTBT: 2005 Trial
Tall Fescue Turf Trial
Location: Rolesville, North Carolina
Cooperator: Dr. Melodee Fraser

SPONSOR	CULTIVAR	Est.	Est. Rank	Brown Patch	Brown Patch Rank	Average Turf Quality
ISI-DLF	IS-TF-152	7.33	8	6.67	21	6.45
PST	Coronado TDH	7.33	5	7.00	12	6.04
ASP	Skyline (ATF1235)	6.33	28	6.33	28	5.89
PST	Tar Heel II	5.67	40	7.67	5	5.55
ISI-DLF	Hounddog VI	7.00	16	6.67	19	5.15
PSG	Grande II	6.00	37	6.67	18	5.11
ASP	Falcon IV	6.00	34	5.67	40	4.85
ISI-DLF	Rhizing Star	7.33	7	3.33	53	3.93
ASP	Water Saver	5.67	46	2.33	54	3.41
ISI-DLF	KY-31	4.67	53	4.67	49	2.26
CV		17.38		20.70		10.00
LSD (.05)		1.49		1.71		0.70

Est = Establishment, 1-9; 9=Best
Brown Patch = 1-9; 9=Most Resistant
Average Turf Quality = 1-9; 9=Best

Table 9.

CTBT: 2005 Trial
Tall Fescue Turf Trial
Location: Urbana, Illinois
Cooperator: Dr. Tom Fermanian

SPONSOR	CULTIVAR	Genetic Color	Genetic Color Rank	Average Density	Average Density Rank	Average Turf Quality
ASP	ATF1040	7.33	15	6.00	4	5.67
ISI-DLF	Hounddog VI	7.00	26	5.89	7	5.67
ASP	Falcon IV	7.00	28	5.78	19	5.50
PST	Coronado TDH	6.33	45	5.78	18	5.39
PST	Tar Heel II	6.33	49	5.00	49	5.22
ASP	Skyline (ATF1235)	7.00	25	5.28	42	5.22
PSG	Grande II	6.67	37	5.28	41	5.11
ASP	Water Saver	6.33	48	5.06	47	4.89
ISI-DLF	Rhizing Star	5.67	53	4.78	51	4.56
ISI-DLF	KY-31	4.00	54	3.61	54	3.50
CV		7.24		9.37		6.96
LSD (.05)		0.67		0.70		0.49

Genetic Color = 1-9; 9=Darkest
Average Density = 1-9; 9=Most Dense (6 ratings)
Average Turf Quality = 1-9; 9=Best (6 ratings)

2006 Data

Table 10

CTBT: 2005 Trial
Tall Fescue Turf Trial
Location: Knoxville, Tennessee
Cooperator: John Soroachan

SPONSOR	CULTIVAR	Subjective Ratings										Digital Camera Analysis Ratings						
		Average Genetic Color	Average Genetic Color Rank	Brown Patch Aug 8	Brown Patch Aug 21	Average Brown Patch	Average Brown Patch Rank	Average Cover	Average Cover Rank	Average Turf Quality	Average Turf Quality Rank	Cover	Cover Rank	Genetic Color	Genetic Color Rank	Density	Density Rank	Turf Quality
Rutgers ISI-DLF PST PST ASP ASP ASP PSG ISI-DLF ISI-DLF	RK-6	7.73	16	19.00	18.33	12.93	47	82.20	3	7.13	3	8.33	9	6.67	19	7.00	2	8.00
	Hounddog VI	7.77	13	17.67	18.33	14.33	39	79.60	9	6.57	32	8.00	17	6.67	29	6.00	26	7.67
	Tar Heel II	7.50	45	14.00	14.00	14.07	42	77.40	35	6.63	21	8.33	10	5.33	52	6.00	27	7.67
	Coronado TDH	7.67	31	15.00	19.33	15.13	34	78.73	17	6.80	10	8.00	19	6.33	35	6.33	21	7.67
	Skyline (ATF1235)	7.70	22	17.67	23.33	16.33	21	78.53	20	6.80	9	7.00	41	7.00	15	6.33	15	7.67
	Falcon IV	7.80	8	17.33	21.00	15.47	31	78.87	14	6.63	22	7.67	27	7.00	16	6.33	20	7.67
	Water Saver	7.57	43	14.00	21.67	15.20	33	76.50	41	6.60	25	7.00	42	6.33	41	5.67	45	7.67
	Grande II	7.67	24	23.33	25.00	16.33	20	76.30	44	6.30	50	7.33	31	6.67	24	5.67	38	7.33
	Rhizing Star	7.37	53	20.00	28.33	20.13	2	75.77	45	6.37	49	6.00	53	5.00	54	5.33	52	6.33
	KY-31	6.80	54	15.00	20.00	14.27	40	83.17	1	6.43	45	5.33	54	5.00	53	5.33	51	6.00
CV		1.83		26.25	27.63	20.99		4.01		12.52		13.84		12.58		14.67		8.01
LSD (.05)		0.19		6.13	7.81	4.48		4.24		1.13		1.40		1.12		1.20		0.81

Subjective Ratings

Average Genetic Color = 1-9; 9=Darkest (10 ratings)

Brown Patch = Percent Infection; 100 = Most Resistant (average=5 ratings)

Average Cover = Percent Cover; 100=Completely covered (10 ratings Jan.-Oct.)

Average Turf Quality = 1-9; 9=Best (8 ratings)

Objective Digital Analysis

1 Rating - July

Genetic Color = 1-9; 9=Darkest

Cover = 1-9; 9=Most Cover

Density = 1-9; 9=Most Dense

Turf Quality = 1-9; 9=Best

CTBT: 2005 Trial

Tall Fescue Turf Trial

Location: Camarillo, California

Cooperator: Earl Slack

Table 11

SPONSOR	CULTIVAR	Turf Quality Average
Rutgers	SH-3	6.83
ASP	Falcon IV	6.27
PST	Coronado TDH	5.83
PST	Tar Heel II	5.50
ASP	Skyline (ATF1235)	5.30
ISI-DLF	Hounddog VI	5.23
PSG	Grande II	5.13
ISI-DLF	Rhizing Star	4.63
ASP	Water Saver	4.00
ISI-DLF	KY-31	2.80
CV		8.33
LSD (.05)		0.63

Turf Quality = 1-9; 9=Best (6 ratings)

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Table 12. Mean salt damage and percent alive ratings for tall fescue entries placed in a greenhouse salt bath at 25,000 ppm NaCl on 11 July 2002.

Entry	Salt Damage			# Alive		% Alive 24 Oct
	29 Jul	16 Aug	11 Sep	11 Sep	24 Oct	
Tar Heel II (PST-5TR1)	3.0 ¹	2.3	2.0	38 ²	36	85.7
Pure Gold	3.7	2.7	1.7	36	28	66.7
Kentucky 31 E	2.7	1.7	1.7	35	26	61.9
Plantation	2.7	1.7	1.7	34	26	61.9
Dominion	3.0	2.0	1.7	29	24	57.1
Coronado TDH	2.3	1.7	1.3	29	24	57.1
Olympic Gold	2.3	1.7	1.3	26	24	57.1
Coronado	3.0	1.7	1.0	31	23	54.8
Tomahawk E	3.0	1.7	1.0	28	21	50.0
Tomahawk RT	2.7	1.7	1.0	27	20	47.6
Silverado	3.0	1.7	1.7	27	19	45.2
Apache II	3.0	1.7	1.7	30	18	42.9
Safari	2.7	1.3	1.0	28	18	42.9
Silverado II (PST-578)	2.7	1.7	1.3	25	18	42.9
Endeavor	3.3	2.0	1.3	25	17	40.5
Silver Star	2.0	1.3	1.0	24	16	38.1
Virtue II	2.7	1.7	1.3	23	16	38.1
Coronado Gold	2.7	1.7	1.3	23	15	35.7
Eldorado	2.0	1.7	1.0	22	15	35.7
Matador	2.7	1.3	1.0	19	14	33.3
Endure	2.0	1.3	1.0	23	13	31.0
Tar Heel	2.7	1.3	1.0	27	10	23.8
Jaguar 3	2.3	1.0	1.0	17	10	23.8
Wolfpack	2.0	1.0	1.0	20	8	19.0
LSD (0.05)	1.0	1.0	0.8	11	12	28.6

¹5 = no damage

4 = 1 - 25% damage

3 = 25.1 - 50% damage

2 = 50.1 - 75% damage

1 = 75.1 - 99.9% damage

0 = dead

²original $n = 42$

#200700169

REPRODUCE LOCALLY. Include form number and date on all reproductions.

FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Pure-Seed Testing, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER PST-5TDH	3. VARIETY NAME Coronado TDH
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) PO Box 449 Hubbard, OR 97032	5. TELEPHONE (include area code) 503-263-0719	6. FAX (include area code) 503-263-0703
7. PVPO NUMBER #200700169		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country. ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

☐ YES ☐ NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership. (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

On 2 February 2006, Pure-Seed Testing, Inc. licensed Coronado TDH to Turf-Seed, Inc. On 16 May 2006, The Scotts Company LLC purchased this license from Turf-Seed, Inc.**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

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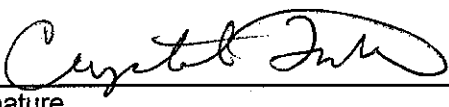
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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT F
DECLARATION REGARDING DEPOSIT**

NAME OF OWNER (S) Pure-Seed Testing, Inc.	ADDRESS (Street and No., or RD No., City, State, and ZIP Code and Country) PO Box 449 Hubbard, OR 97032	TEMPORARY OR EXPERIMENTAL DESIGNATION PST-5TDH VARIETY NAME Coronado TDH
NAME OF OWNER REPRESENTATIVE(S) Melodee Fraser, Ph.D. Crystal Rose-Fricker	ADDRESS (Street and No., or RD No., City, State, and ZIP Code and Country) PO Box 176, Rolesville, NC 27571 PO Box 449, Hubbard, OR 97032	FOR OFFICIAL USE ONLY PVPO NUMBER #200700169

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.


Signature


Date